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(54) Title: MUTANTS FOR THE PREPARATION OF D-AMINO ACIDS

(57) Abstract: The present invention relates to specific E. coli mutants which can be used for the synthesis of D-amino acids, and to such a process. The mutants are distinguished by deficiencies in particular enzymes which break down D-amino acids.

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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

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IPC 7 C12N C12P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	MARCEAU M ET AL: "D SERINE DEHYDRATASE FROM ESCHERICHIA-COLI DNA SEQUENCE AND IDENTIFICATION OF CATALYTICALLY INACTIVE GLYCINE TO ASPARTIC ACID VARIANTS" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 263, no. 32, 1988, pages 16926-16933, XP002272606 ISSN: 0021-9258 the whole document --- -/-	1-7

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>WILD J ET AL: "D AMINO-ACID DEHYDROGENASE OF ESCHERICHIA-COLI K-12 POSITIVE SELECTION OF MUTANTS DEFECTIVE IN ENZYME ACTIVITY AND LOCALIZATION OF THE STRUCTURAL GENE"</p> <p>MOLECULAR AND GENERAL GENETICS, vol. 181, no. 3, 1981, pages 373-378, XP009027160</p> <p>ISSN: 0026-8925</p> <p>the whole document</p>	1-7
Y	<p>SAREEN DIPTI ET AL: "Chaperone-assisted overexpression of an active D-carbamoylase from Agrobacterium tumefaciens AM 10"</p> <p>PROTEIN EXPRESSION AND PURIFICATION, vol. 23, no. 3, December 2001 (2001-12), pages 374-379, XP002272608</p> <p>ISSN: 1046-5928</p> <p>the whole document</p>	3,6,7
Y	<p>HILS M ET AL: "CLONING AND CHARACTERIZATION OF GENES FROM AGROBACTERIUM SP. IP I-671 INVOLVED IN HYDANTOIN DEGRADATION"</p> <p>APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, SPRINGER VERLAG, BERLIN, DE, vol. 57, no. 5/6, 21 March 2001 (2001-03-21), pages 680-688, XP001118705</p> <p>ISSN: 0175-7598</p> <p>the whole document</p>	3,6,7
Y	<p>DE 101 14 999 A (DEGUSSA)</p> <p>10 October 2002 (2002-10-10)</p> <p>the whole document</p>	3,6,7
A	<p>LOBOCKA MALGORZATA ET AL: "Organization and expression of the Escherichia coli K-12 dad operon encoding the smaller subunit of D-amino acid dehydrogenase and the catabolic alanine racemase"</p> <p>JOURNAL OF BACTERIOLOGY, vol. 176, no. 5, 1994, pages 1500-1510, XP009027210</p> <p>ISSN: 0021-9193</p> <p>the whole document</p>	

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DATSENKO KIRILL A ET AL: "One-step inactivation of chromosomal genes in Escherichia coli K-12 using PCR products" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 97, no. 12, 6 June 2000 (2000-06-06), pages 6640-6645, XP002210218 ISSN: 0027-8424</p>	
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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			EP 1373522 A2	02-01-2004
			US 2003143244 A1	31-07-2003
